WHAT IS CLAIMED IS:

1. A method of mapping environmental resources to memory, comprising: providing a computer;

providing a microcontroller network;

connecting the microcontroller network to a computer containing a central processor and a memory;

creating an information pathway between the network of microcontrollers and specific memory addresses of the memory; and

executing commands on the at least one microcontroller which manage and diagnose system functions.

2. A method of mapping environmental resources to memory, comprising: providing a computer, including a processor and a memory, connected to a microcontroller network;

connecting a plurality of sensors to the microcontroller network; and providing a network model in the computer memory, wherein the computer is capable of communicating with a selected one of the sensors by mapping a unique identifier to the microcontroller in the network connected to the selected sensor.

ald Bot all 1947

15

10